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DATA CENTER OPERATIONS BRANCH

NDS OPERATIONS PROCEDURE MANUAL
NO. P-L010

APPLICATIONS SOFTWARE
13 April 1983

LNSQR11

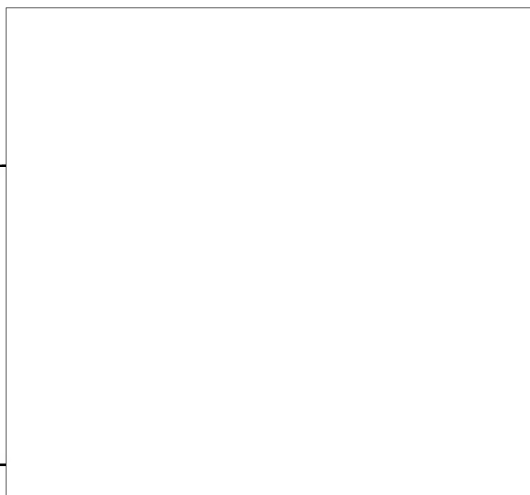SYMBOLIC TITLE: LNSQ11
PROGRAMMER:

25X1

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Program LNSQ11

Date 16 July 1981

APPROVALS

This operations manual has been reviewed and approved by the
following persons:

25X1

23 Dec 81
(date)

28 Dec 81
(date)

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Program LNSQ11

Date 16 July 81

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Program LNSQ11

Date 16 July 81

SUMMARY

The LINSQ11 program generates a listing for the Mission Analysis Branch (MAB), RSD/PSG for use with a mission file. LINSQ11 retrieves data from the MPF file to perform calculations on the frame and strip records within each mission for a given day.

In addition to calling two FORTRAN programs (SUB-LINSQ11/LNSQ11 and AZMUTH/LNSQ11) to compute linear mileage and square nautical mileage on both type of records, LNSQ11 computes the actual footage, the GMT, and the GSD, when necessary. Totals are given for each pass, as well as for the entire mission day.

LINSQ11 can be initialized by loading the provided card deck via a card reader. If the request form from MAB asks that the run be made for a specific date (rather than for the current date), MAB must keypunch a data card (to replace the standard data card of '999999') with the date specified by MAB using the format given on page 7a. When the run is completed, the original data card (with '999999') is to be replaced in the card deck, removing the data card prepared by TSS. The card deck is to be maintained by DCOB.

Copies of the LNSQ11 Listing should be forwarded to C/MAB/RSD/PSG.

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Program LNSQ11

Date 16 July 81

OPERATIONAL FLOW CHART
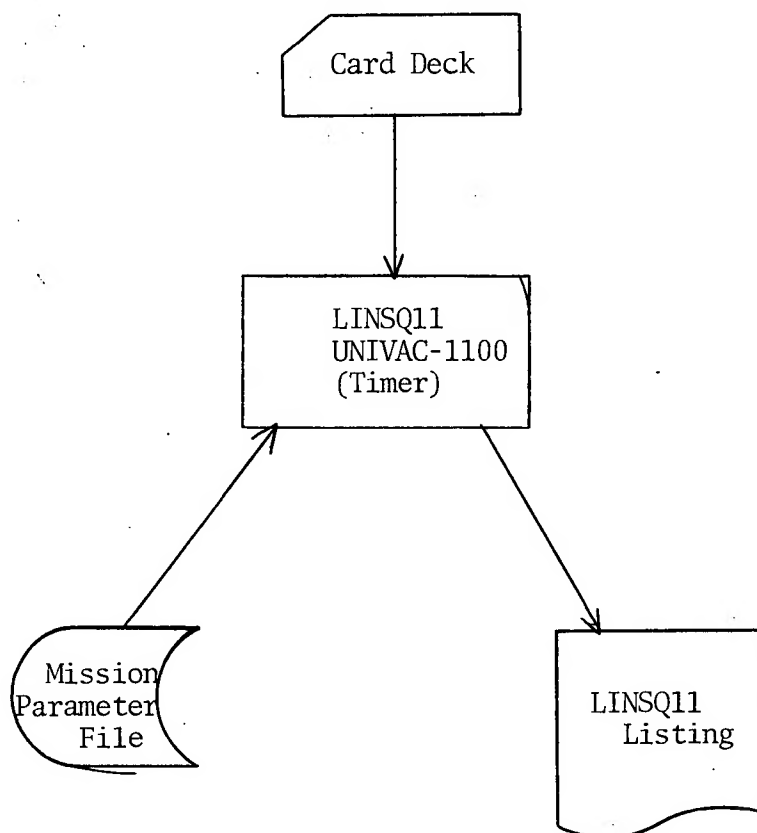
```
                    ┌──────────────┐
                    │  Card Deck   │
                    └──────┬───────┘
                           │
                           ▼
                   ┌────────────────┐
                   │  LINSQ11       │
                   │  UNIVAC-1100   │
                   │  (Timer)       │
                   └───┬─────────┬──┘
                      ▲           ╲
                     ╱             ▼
          ┌──────────────┐   ┌──────────────┐
          │ Mission      │   │  LINSQ11     │
          │ Parameter    │   │  Listing     │
          │ File         │   │              │
          └──────────────┘   └──────────────┘
```

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COMPUTER RUN PREPARATION

PUNCHED CARD INPUT

Type: Control Card

Identification: @RUN

Format: @RUN,C/R LNSQ11,S33741016/BOLTON,XM1,0240

N = numeral	Z = optional character
A = letter	& = plus
X = any legitimate character in card code	- = minus
S = special character	

Field	Column	Comments
1	1-8	SAAASASA
2	10-16	AAAAAAS
3	17-26	ANNNNNNNNS
4	27-33	AAAAAAS
5	34-37	ANNS
6	38-41	NNNN

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Program LNSQ11

Date 16 July 81

COMPUTER RUN PREPARATION

PUNCHED CARD INPUT

Type: Control Card

Identification: @ASG

Format: @ASG,A NDS*PRODSCHEMA.

N = numeral
A = letter
X = any legitimate character
    in card code

Z = optional character (letter of
    numeral)
& = plus
- = minus
S = special character

Field	Column	Comments
1	1-6	SAAASA
2	9-23	AAASAAAAAAAAAAS

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Program LNSQ11

Date 16 July 81

COMPUTER RUN PREPARATION

PUNCHED CARD INPUT

Type: Control Card

Identification: @SYM

Format: @SYM PRINT$.,1,PR

N = numeral
A = letter
X = any legitimate character
   in card code

Z = optional character (letter of
   numeral)
& = plus
- = minus
S = special character

Field	Column	Comments
1	1-4	SAAA
2	6-13	AAAAASSS
3	14-15	NS
4	16-17	AA

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Program LNSQ11

Date 16 July 81

COMPUTER RUN PREPARATION

PUNCHED CARD INPUT

Type: Control Card

Identification: @ASG

Format: @ASG,A XM1*P$ABS.

N = numeral
A = letter
X = any legitimate character in card code

Z = optional character (letter of numeral)
& = plus
- = minus
S = special character

Field	Column	Comments

COMPUTER RUN PREPARATION

PUNCHED CARD INPUT

Type: Control Card

Identification: @ERS

Format: @ERS TPF$

N = numeral
A = letter
X = any legitimate character
 in card code

Z = optional character (letter of
 numeral)
§ = plus
- = minus
S = special character

Field	Column	Comments

COMPUTER RUN PREPARATION

PUNCHED CARD INPUT

Type: Control Card

Identification: @COPY,A

Format: @COPY,A XM1*P$ABS.LNSQ11,TPF$

N = numeral
A = letter
X = any legitimate character
    in card code

Z = optional character (letter of
    numeral)
& = plus
- = minus
S = special character

Field	Column	Comments

COMPUTER RUN PREPARATION

PUNCHED CARD INPUT

Type: Control Card

Identification: @FREE

Format: @FREE XM1*P$ABS.

N = numeral
A = letter
X = any legitimate character in card code

Z = optional character (letter of numeral)
& = plus
- = minus
S = special character

Field	Column	Comments

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<div align="right">
Program LNSQll

Date 16 July 81
</div>

COMPUTER RUN PREPARATION

PUNCHED CARD INPUT

Type: Control Card

Identification: @XQT

Format: @XQT TPF$.LNSQ11

N = numeral
A = letter
X = any legitimate character
in card code

Z = optional character (letter of
numeral)
& = plus
- = minus
S = special character

Field	Column	Comments

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COMPUTER RUN PREPARATION

PUNCHED CARD INPUT

Type: Data Card

Identification:

Format: 999999

N = numeral
A = letter
X = any legitimate character
  in card code

Z = optional character (letter of
  numeral)
& = plus
- = minus
S = special character

Field	Column	Comments
1	1-6	NNNNNN

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COMPUTER RUN PREPARATION

PUNCHED CARD INPUT

Type: Control Card

Identification: @FIN

Format: @FIN

N = numeral
A = letter
X = any legitimate character
    in card code

Z = optional character (letter of
    numeral)
& = plus
- = minus
S = special character

Field	Column	Comments
1	1-4	SAAA

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Program LNSQ11

Date 16 July 81

PUNCHED CARD INPUT (Continued)

Source: Card deck maintained by DCOB·

Sequence:

Restrictions:

Peripheral Device: Card Reader and Printer

Quantity:

Disposition: Card deck maintained in DCOB

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Program __LNSQ11__

Date __16 July 81__

HIGH-SPEED PRINTER OUTPUT

Identification: LNSQ11

Format: (See sample on page 11)

Type of Form:

Disposition: Forward to C/MAB/RSD/PSG

Page Denied

COMPUTER RUN PREPARATION SUMMARY

Assembly System: SPURT FD _____ SPRYE _____ ALGOL _____ FORTRAM IV _____ COBOL __X__ SIMSCRIPT _____

Hardware System: ____Univac 1100 (Timer)_____ Run Sequence _____ of _____

Application: _____ Program Name ___LNSQ11_____ Programmer [   ] _____ Core: Min ____ Ma 25X1

Drum: _____ Estimated Run Time: _____

MAGNETIC TAPE (File Protect All Output Tapes)

Logical Servo No. or Symbolic Name	
Work	
Input/Output	
Standard Tape	
Label (See OPB/TAS)	
Disposition: Reten- Save, List, & tion Release Period	
Next Phase [Prog. Name(s)]	

INPUT

_____ Data Cards - Prog. Controlled (Volume) _____
_____ Parameters - Prog. Controlled (Volume) _____
_____ Parameters - Oper. Load as Errata (Volume) _____
_____ Paper Tape (Volume) _____

OUTPUT   On _xx_ Off ____ Line _____

1004 Board Name (no.) _____ Carriage Tape _____ Off Line Estimated Run Time: _____
                                                                              (Hours & Tenths)

Printer (Type Paper/No. of Copies) ___143/1 copy_____

Cards on ___ Off ___ Line: _____   Plotter On ___ Off ___ Line: _____
   (Volume)   (Amount of paper in feet)
Other On ___ Off ___ Line: _____
   (Volume)

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Program __LNSQ11__

Date __16 July 81__

ON-LINE COMPUTER PROCESSING

EQUIPMENT REQUIREMENTS

Computer: Univac 1100 (Timer)

Schema Used:

Storage:

     Core Required -

     I Bank   -

     D Bank   -

Peripheral Devices: Card Reader; Printer

Restrictions:

Files Accessed:

Files Created/Deleted:

File Size:

Approximate Number of Accesses:

Program LNSQ11

Date   16 July 81

NORMAL RUN INSTRUCTIONS

Initiation: Load card deck in reader and run job. Use 999999 for date
unless otherwise specified.

Monitor:

Message	Cause	Operator Action
None		

Program LNSQ11

Date 16 July 81

NORMAL RUN INSTRUCTIONS (Continued)

```
 1:@RUN    LNSQ11,S33741016/BOLTON,XM1
 2:@ASG,A NDS*PRODSCHEMA.
 3:@SYM PRINT$.,1,PR
 4:@ASG,A XM1*P$ABS.
 5:@ERS TPF$.
 6:@COPY,A XM1*P$ABS.LNSQ11,TPF$.
 7:@FREE XM1*P$ABS.
 8:@XQT TPF$.LNSQ11
 9:811208
10:@FIN
```

Interrupt/Reentry: None

Termination: Standard

Take-down: Replace card deck in DCOB storage for future use.

II Keyins:

Disposition of Data: Forward output to C/MAB/RSD/PSG.

Program LNSQ11

Date 16 July 81

ABNORMAL RUN INSTRUCTIONS

Messages:

Message	Cause	Operator Action
EN-ERROR, ERROR STATUS IS ERROR-STATUS	DMS Problem	Try again, if same error occurs, call CSD.
ERROR ON ROLLBACK As well as message above	DMS Problem	Same as above.

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XMI*P$SYM.AZMUTH/LNSQ11

Three different versions of AZMUTH, a LNSQ11 subroutine, are on the
1100/40 Operational System:

          1) XES*S-YOPTION.AZMUTH/AZM
          2) LIB*SYM.AZMUTH/AZM
          3) C494*SYM.AZMUTH/AZM

It is not known which version of AZMUTH was used to create the absolute for
LNSQ11 on the 1100/40; therefore, all three versions were tested on the 1100/80
system. Of the three, LIB*SYM.AZMUTH/AZM was the only one that worked on the
1100/80 and is the version that was used to create the absolute for the 1100/80
converted version of LNSQ11.

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OPERATIONS BRANCH WORK REQUEST

TO: PRODUCTION ANALYSIS SECTION/OB/AID/PDG

PAS NO. (Leave blank)	COMPONENT CODE S42	PROJECT NO. 730000	TYPE RUN	PAS	IN
REQUESTER	PHONE NO.	QUANTITY	☐ PRODUCTION		

TYPE RUN
☐ PRODUCTION
☐ CHECKOUT
☐ ASSEMBLE
☐ COMPILE
☐ OPEN SHOP
☐ ATTENDED
☐ KEYPUNCH
☐ OTHER _____

25X1

PRODUCT

SECURITY CLASSIFICATION

CONTROL NUMBER

PAS   IN

OUT

TYPE FORM	D & BS	INPUT	OUTPUT	PROGRAM LOAD	DEAD LINE	OUT
☐ 1471	BIND Y N	☐ TAPE(S)	☐ TAPE(S)	☐ TELETYPE		
☐ 1468	BURST Y N	☐ CARDS	☐ CARDS	☐ CONSOLE		
☐ 116	TRIM R L	☐ NONE	☐ PRINTER	☐ CARDS		
OTHER		OTHER	OTHER			

DATA CONTROLLER	QUALITY CONTROL IN	QUALITY CONTROL OUT	COMPUTER RM.SUPERVISOR	CUST PICKUP	BADGE NO.	OUT
DATE	DATE	DATE	DATE			
BADGE NO.	BADGE NO.	BADGE NO.	BADGE NO.			

JOB DESCRIPITION

<u>OP</u>

Please run LNSQ11 with the following date card:

```
YYMMDD
810105
```

"RUN,C/R LNSQ11,S33741016/ _____ ,XM1,0240   25X1

```
00 0 0 0000 000  00000 00 000 00  00  00 000000000000000000000000000000000000000000 000000
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80
111111  111111   111111  1 1  111111111  111111111111111111111111111111111111111111111111
22222222222 2222 ·222222222  22222222222  2222222222222222222222222222222222222222222222222222
3333  333 33333 3  333333333  33 333  333333333333333333333333333333333333333333333333333333
44 44444444444444444444  444444444444  4444  44444444444444444444444444444444444444444444444
555 555555 5555555555555555555  5555555555555555555555555555555555555555555555555555555555
6666666666666666666666666666 66 66 666666666666666666666666666666666666666666666666666666666
77777777777777777777 7777777777777 777777777777777777777777777777777777777777777777777777
888 8888888 88 88888888888888888 888 8888888888888888888888888888888888888888888888888888888
9 99999 9999999999999999999999999999999999999999999999999999999999999999999999999999999999
1 2 3 4 5 6 7 8 9 10                                                                      71 72 73 74 75 76 77 78 79 80
PRYOR 5081
```

@ASG;A NDS*PRODSCHEMA.

01

```
00 0 0000 00000 0000000000000000000000000000000000000000000000000000000000000000000
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80
1 111 11111111111111 111111111111111111111111111111111111111111111111111111111111111
22 222222 22222 2222222222222222222222222222222222222222222222222222222222222222222222
3333 3333333333 3333 33333333333333333333333333333333333333333333333333333333333333333
44444444 4 444 4444 44444444444444444444444444444444444444444444444444444444444444444
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888 88888 888888 888 8888888888888888888888888888888888888888888888888888888888888888888
9999999999999 9999999999999999999999999999999999999999999999999999999999999999999999999
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80
```
PRYOR 5081

&SYM PRINT$.,1,PR

```
0    000000  00  0  0000000000000000000000000000000000000000000000000000000000000000000000
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80
1111111111111  111111111111111111111111111111111111111111111111111111111111111111111111
2 2222222222222222222222222222222222222222222222222222222222222222222222222222222222222222
333333333    3  33333333333333333333333333333333333333333333333333333333333333333333333333
444 444444444444444444444444444444444444444444444444444444444444444444444444444444444444444
55555555 55555555555555555555555555555555555555555555555555555555555555555555555555555555555
666666666666666666666666666666666666666666666666666666666666666666666666666666666666666666
 7777 777777777 777777777777777777777777777777777777777777777777777777777777777777777777777
 8 8888888   8 8888888888888888888888888888888888888888888888888888888888888888888888888888
999999  99999999 999999999999999999999999999999999999999999999999999999999999999999999999999
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80
PRYOR 5081
```

8ASG,A XM1*P$ABS.

0 0 0 0 0 ı 0 0 0 0 0 0 0 0 ı 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80
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3 3 3 3 ˙3 3 3 3 3 3 3 ı 3 3 3˙ 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
4 4 4 4 4 4 4 4 ˙4 ˙4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
˙7 7˙ ˙7 7 7˙ ˙7 7 7˙ 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
˙ 8 8 8˙ 8 8 8 8 8˙ 8˙ 8 8 8˙ ˙ 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 0 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80
PRYOR 5081-

8ERS TPF$.

```
0 0 0  0  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

2 2 2  2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

3 3 3 3 3  3 3    3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3

4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4

5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5

6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6

7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7

8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8

9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80
```

PRYOR 5081

"COPY:A XM1*P$ABS.LNSQ11,TPF$.

```
0 0 0 0    0 0  0 0 0 0 0 0 0  0 0 0  0 0 0      0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1  2  3  4  5  6  7  8  9  10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80
1 1 1 1 1 1  1 1 1  1 1 1  1 1 1 1 1 1 1    1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2    2 2 2  2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

3 3 3 3 3 3 3 3 3 3 3 3 3  3 3 3   3 3 3 3 3  3 3    3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3

4 4 4 4 4 4 4 4  4  4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4

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6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6  6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6

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